

RAW SEQUENCE LISTING

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Application Serial Number: 10|511,756
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DATE: 02/08/2006

PATENT APPLICATION: US/10/511,756

TIME: 11:42:31

Input Set : A:\12177804.APP

Output Set: N:\CRF4\02082006\J511756.raw

3 <110> APPLICANT: BERGMANN, ANDREAS
 4 STRUCK, JOACHIM
 5 UHLEIN, MONIKA
 7 <120> TITLE OF INVENTION: USES OF CARBAMOYL PHOSPHATE SYNTHETASE 1 (CPS 1) AND
 8 ITS FRAGMENTS FOR THE DIAGNOSIS OF INFLAMMATORY
 9 DISEASES AND SEPSIS
 11 <130> FILE REFERENCE: 121778-04341933
 13 <140> CURRENT APPLICATION NUMBER: 10/511,756
 C--> 14 <141> CURRENT FILING DATE: 2004-10-19
 16 <150> PRIOR APPLICATION NUMBER: PCT/EP03/03939
 17 <151> PRIOR FILING DATE: 2003-04-15
 19 <150> PRIOR APPLICATION NUMBER: EP 020088415
 20 <151> PRIOR FILING DATE: 2002-04-19
 22 <160> NUMBER OF SEQ ID NOS: 8
 24 <170> SOFTWARE: PatentIn Ver. 2.1
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 11
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Homo sapiens
 31 <400> SEQUENCE: 1
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 33 1 5 10
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 7
 39 <212> TYPE: PRT
 40 <213> ORGANISM: Homo sapiens
 42 <400> SEQUENCE: 2
 43 Asn Gln Pro Val Leu Asn Ile
 44 1 5
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 13
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Homo sapiens
 53 <400> SEQUENCE: 3
 54 Ala Gln Thr Ala His Ile Val Leu Glu Asp Gly Thr Lys
 55 1 5 10
 59 <210> SEQ ID NO: 4
 60 <211> LENGTH: 4
 61 <212> TYPE: PRT
 62 <213> ORGANISM: Homo sapiens
 64 <400> SEQUENCE: 4
 65 Thr Ala His Ile
 66 1

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70 <210> SEQ ID NO: 5
71 <211> LENGTH: 12
72 <212> TYPE: PRT
73 <213> ORGANISM: Homo sapiens
75 <400> SEQUENCE: 5
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77   1           5           10
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 1500
83 <212> TYPE: PRT
84 <213> ORGANISM: Homo sapiens
86 <400> SEQUENCE: 6
87 Met Thr Arg Ile Leu Thr Ala Phe Lys Val Val Arg Thr Leu Lys Thr
88   1           5           10           15
90 Gly Phe Gly Phe Thr Asn Val Thr Ala His Gln Lys Trp Lys Phe Ser
91           20           25           30
93 Arg Pro Gly Ile Arg Leu Leu Ser Val Lys Ala Gln Thr Ala His Ile
94           35           40           45
96 Val Leu Glu Asp Gly Thr Lys Met Lys Gly Tyr Ser Phe Gly His Pro
97           50           55           60
99 Ser Ser Val Ala Gly Glu Val Val Phe Asn Thr Gly Leu Gly Gly Tyr
100  65           70           75           80
102 Pro Glu Ala Ile Thr Asp Pro Ala Tyr Lys Gly Gln Ile Leu Thr Met
103           85           90           95
105 Ala Asn Pro Ile Ile Gly Asn Gly Gly Ala Pro Asp Thr Thr Ala Leu
106           100          105          110
108 Asp Glu Leu Gly Leu Ser Lys Tyr Leu Glu Ser Asn Gly Ile Lys Val
109           115          120          125
111 Ser Gly Leu Leu Val Leu Asp Tyr Ser Lys Asp Tyr Asn His Trp Leu
112          130          135          140
114 Ala Thr Lys Ser Leu Gly Gln Trp Leu Gln Glu Glu Lys Val Pro Ala
115 145          150          155          160
117 Ile Tyr Gly Val Asp Thr Arg Met Leu Thr Lys Ile Ile Arg Asp Lys
118           165          170          175
120 Gly Thr Met Leu Gly Lys Ile Glu Phe Glu Gly Gln Pro Val Asp Phe
121           180          185          190
123 Val Asp Pro Asn Lys Gln Asn Leu Ile Ala Glu Val Ser Thr Lys Asp
124          195          200          205
126 Val Lys Val Tyr Gly Lys Gly Asn Pro Thr Lys Val Val Ala Val Asp
127          210          215          220
129 Cys Gly Ile Lys Asn Asn Val Ile Arg Leu Leu Val Lys Arg Gly Ala
130 225          230          235          240
132 Glu Val His Leu Val Pro Trp Asn His Asp Phe Thr Lys Met Glu Tyr
133           245          250          255
135 Asp Gly Ile Leu Ile Ala Gly Gly Pro Gly Asn Pro Ala Leu Ala Glu
136           260          265          270
138 Pro Leu Ile Gln Asn Val Arg Lys Ile Leu Glu Ser Asp Arg Lys Glu
139           275          280          285
141 Pro Leu Phe Gly Ile Ser Thr Gly Asn Leu Ile Thr Gly Leu Ala Ala

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142      290      295      300
144 Gly Ala Lys Thr Tyr Lys Met Ser Met Ala Asn Arg Gly Gln Asn Gln
145 305      310      315      320
147 Pro Val Leu Asn Ile Thr Asn Lys Gln Ala Phe Ile Thr Ala Gln Asn
148      325      330      335
150 His Gly Tyr Ala Leu Asp Asn Thr Leu Pro Ala Gly Trp Lys Pro Leu
151      340      345      350
153 Phe Val Asn Val Asn Asp Gln Thr Asn Glu Gly Ile Met His Glu Ser
154      355      360      365
156 Lys Pro Phe Phe Ala Val Gln Phe His Pro Glu Val Thr Pro Gly Pro
157      370      375      380
159 Ile Asp Thr Glu Tyr Leu Phe Asp Ser Phe Phe Ser Leu Ile Lys Lys
160 385      390      395      400
162 Gly Lys Ala Thr Thr Ile Thr Ser Val Leu Pro Lys Pro Ala Leu Val
163      405      410      415
165 Ala Ser Arg Val Glu Val Ser Lys Val Leu Ile Leu Gly Ser Gly Gly
166      420      425      430
168 Leu Ser Ile Gly Gln Ala Gly Glu Phe Asp Tyr Ser Gly Ser Gln Ala
169      435      440      445
171 Val Lys Ala Met Lys Glu Glu Asn Val Lys Thr Val Leu Met Asn Pro
172      450      455      460
174 Asn Ile Ala Ser Val Gln Thr Asn Glu Val Gly Leu Lys Gln Ala Asp
175 465      470      475      480
177 Thr Val Tyr Phe Leu Pro Ile Thr Pro Gln Phe Val Thr Glu Val Ile
178      485      490      495
180 Lys Ala Glu Gln Pro Asp Gly Leu Ile Leu Gly Met Gly Gly Gln Thr
181      500      505      510
183 Ala Leu Asn Cys Gly Val Glu Leu Phe Lys Arg Gly Val Leu Lys Glu
184      515      520      525
186 Tyr Gly Val Lys Val Leu Gly Thr Ser Val Glu Ser Ile Met Ala Thr
187      530      535      540
189 Glu Asp Arg Gln Leu Phe Ser Asp Lys Leu Asn Glu Ile Asn Glu Lys
190 545      550      555      560
192 Ile Ala Pro Ser Phe Ala Val Glu Ser Ile Glu Asp Ala Leu Lys Ala
193      565      570      575
195 Ala Asp Thr Ile Gly Tyr Pro Val Met Ile Arg Ser Ala Tyr Ala Leu
196      580      585      590
198 Gly Gly Leu Gly Ser Gly Ile Cys Pro Asn Arg Glu Thr Leu Met Asp
199      595      600      605
201 Leu Ser Thr Lys Ala Phe Ala Met Thr Asn Gln Ile Leu Val Glu Lys
202      610      615      620
204 Ser Val Thr Gly Trp Lys Glu Ile Glu Tyr Glu Val Val Arg Asp Ala
205 625      630      635      640
207 Asp Asp Asn Cys Val Thr Val Cys Asn Met Glu Asn Val Asp Ala Met
208      645      650      655
210 Gly Val His Thr Gly Asp Ser Val Val Val Ala Pro Ala Gln Thr Leu
211      660      665      670
213 Ser Asn Ala Glu Phe Gln Met Leu Arg Arg Thr Ser Ile Asn Val Val
214      675      680      685

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216 Arg His Leu Gly Ile Val Gly Glu Cys Asn Ile Gln Phe Ala Leu His
217      690      695      700
219 Pro Thr Ser Met Glu Tyr Cys Ile Ile Glu Val Asn Ala Arg Leu Ser
220 705      710      715      720
222 Arg Ser Ser Ala Leu Ala Ser Lys Ala Thr Gly Tyr Pro Leu Ala Phe
223      725      730      735
225 Ile Ala Ala Lys Ile Ala Leu Gly Ile Pro Leu Pro Glu Ile Lys Asn
226      740      745      750
228 Val Val Ser Gly Lys Thr Ser Ala Cys Phe Glu Pro Ser Leu Asp Tyr
229      755      760      765
231 Met Val Thr Lys Ile Pro Arg Trp Asp Leu Asp Arg Phe His Gly Thr
232      770      775      780
234 Ser Ser Arg Ile Gly Ser Ser Met Lys Ser Val Gly Glu Val Met Ala
235 785      790      795      800
237 Ile Gly Arg Thr Phe Glu Glu Ser Phe Gln Lys Ala Leu Arg Met Cys
238      805      810      815
240 His Pro Ser Ile Glu Gly Phe Thr Pro Arg Leu Pro Met Asn Lys Glu
241      820      825      830
243 Trp Pro Ser Asn Leu Asp Leu Arg Lys Glu Leu Ser Glu Pro Ser Ser
244      835      840      845
246 Thr Arg Ile Tyr Ala Ile Ala Lys Ala Ile Asp Asp Asn Met Ser Leu
247      850      855      860
249 Asp Glu Ile Glu Lys Leu Thr Tyr Ile Asp Lys Trp Phe Leu Tyr Lys
250 865      870      875      880
252 Met Arg Asp Ile Leu Asn Met Glu Lys Thr Leu Lys Gly Leu Asn Ser
253      885      890      895
255 Glu Ser Met Thr Glu Glu Thr Leu Lys Arg Ala Lys Glu Ile Gly Phe
256      900      905      910
258 Ser Asp Lys Gln Ile Ser Lys Cys Leu Gly Leu Thr Glu Ala Gln Thr
259      915      920      925
261 Arg Glu Leu Arg Leu Lys Lys Asn Ile His Pro Trp Val Lys Gln Ile
262      930      935      940
264 Asp Thr Leu Ala Ala Glu Tyr Pro Ser Val Thr Asn Tyr Leu Tyr Val
265 945      950      955      960
267 Thr Tyr Asn Gly Gln Glu His Asp Val Asn Phe Asp Asp His Gly Met
268      965      970      975
270 Met Val Leu Gly Cys Gly Pro Tyr His Ile Gly Ser Ser Val Glu Phe
271      980      985      990
273 Asp Trp Cys Ala Val Ser Ser Ile Arg Thr Leu Arg Gln Leu Gly Lys
274      995      1000      1005
276 Lys Thr Val Val Val Asn Cys Asn Pro Glu Thr Val Ser Thr Asp Phe
277      1010      1015      1020
279 Asp Glu Cys Asp Lys Leu Tyr Phe Glu Glu Leu Ser Leu Glu Arg Ile
280 1025      1030      1035      1040
282 Leu Asp Ile Tyr His Gln Glu Ala Cys Gly Gly Cys Ile Ile Ser Val
283      1045      1050      1055
285 Gly Gly Gln Ile Pro Asn Asn Leu Ala Val Pro Leu Tyr Lys Asn Gly
286      1060      1065      1070
288 Val Lys Ile Met Gly Thr Ser Pro Leu Gln Ile Asp Arg Ala Glu Asp

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289          1075          1080          1085
291 Arg Ser Ile Phe Ser Ala Val Leu Asp Glu Leu Lys Val Ala Gln Ala
292          1090          1095          1100
294 Pro Trp Lys Ala Val Asn Thr Leu Asn Glu Ala Leu Glu Phe Ala Lys
295 1105          1110          1115          1120
297 Ser Val Asp Tyr Pro Cys Leu Leu Arg Pro Ser Tyr Val Leu Ser Gly
298          1125          1130          1135
300 Ser Ala Met Asn Val Val Phe Ser Glu Asp Glu Met Lys Lys Phe Leu
301          1140          1145          1150
303 Glu Glu Ala Thr Arg Val Ser Gln Glu His Pro Val Val Leu Thr Lys
304          1155          1160          1165
306 Phe Val Glu Gly Ala Arg Glu Val Glu Met Asp Ala Val Gly Lys Asp
307          1170          1175          1180
309 Gly Arg Val Ile Ser His Ala Ile Ser Glu His Val Glu Asp Ala Gly
310 1185          1190          1195          1200
312 Val His Ser Gly Asp Ala Thr Leu Met Leu Pro Thr Gln Thr Ile Ser
313          1205          1210          1215
315 Gln Gly Ala Ile Glu Lys Val Lys Asp Ala Thr Arg Lys Ile Ala Lys
316          1220          1225          1230
318 Ala Phe Ala Ile Ser Gly Pro Phe Asn Val Gln Phe Leu Val Lys Gly
319          1235          1240          1245
321 Asn Asp Val Leu Val Ile Glu Cys Asn Leu Arg Ala Ser Arg Ser Phe
322          1250          1255          1260
324 Pro Phe Val Ser Lys Thr Leu Gly Val Asp Phe Ile Asp Val Ala Thr
325 1265          1270          1275          1280
327 Lys Val Met Ile Gly Glu Asn Val Asp Glu Lys His Leu Pro Thr Leu
328          1285          1290          1295
330 Asp His Pro Ile Ile Pro Ala Asp Tyr Val Ala Ile Lys Ala Pro Met
331          1300          1305          1310
333 Phe Ser Trp Pro Arg Leu Arg Asp Ala Asp Pro Ile Leu Arg Cys Glu
334          1315          1320          1325
336 Met Ala Ser Thr Gly Glu Val Ala Cys Phe Gly Glu Gly Ile His Thr
337          1330          1335          1340
339 Ala Phe Leu Lys Ala Met Leu Ser Thr Gly Phe Lys Ile Pro Gln Lys
340 1345          1350          1355          1360
342 Gly Ile Leu Ile Gly Ile Gln Gln Ser Phe Arg Pro Arg Phe Leu Gly
343          1365          1370          1375
345 Val Ala Glu Gln Leu His Asn Glu Gly Phe Lys Leu Phe Ala Thr Glu
346          1380          1385          1390
348 Ala Thr Ser Asp Trp Leu Asn Ala Asn Asn Val Pro Ala Thr Pro Val
349          1395          1400          1405
351 Ala Trp Pro Ser Gln Glu Gly Gln Asn Pro Ser Leu Ser Ser Ile Arg
352          1410          1415          1420
354 Lys Leu Ile Arg Asp Gly Ser Ile Asp Leu Val Ile Asn Leu Pro Asn
355 1425          1430          1435          1440
357 Asn Asn Thr Lys Phe Val His Asp Asn Tyr Val Ile Arg Arg Thr Ala
358          1445          1450          1455
360 Val Asp Ser Gly Ile Pro Leu Leu Thr Asn Phe Gln Val Thr Lys Leu
361          1460          1465          1470

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VERIFICATION SUMMARY

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